

IN THE CLAIMS:

1. (Original) A method for the preparation of a silicon-containing polysulfide-type polymer characterized by mixing (A) a silicon-containing compound having a silicon atom-bonded monovalent organic group with an aliphatic unsaturated bond; (B) a polysulfide polymer with at least two mercapto groups in one molecule; and (C) an organic base or ammonia; said mixing being carried out in the presence of (D) sulfur.

2. (Original) The method of Claim 1, wherein said component (A) is an organosilane having a silicon atom-bonded monovalent organic group having an aliphatic unsaturated bond, and wherein said silicon-containing polysulfide-type polymer is a polysulfide-type polymer that contains an organosilyl group.

3. (Original) The method of Claim 2, wherein said organosilane contains a silicon atom-bonded monovalent organic group with an aliphatic unsaturated bond and a silicon atom-bonded alkoxy group.

4. (Currently Amended) The method of Claim 1, wherein said component (A) is an organosilane or mixture of organosilanes represented by the following formula (1):



where R^1 is an alkoxyalkylene group or a monovalent hydrocarbon group with 1 to 10 carbon atoms, R^2 is a monovalent hydrocarbon group, ~~other than the one having with~~

1-15 carbon atoms, other than monovalent hydrocarbon groups having an aliphatic unsaturated bond[[s]], R^5 is a monovalent hydrocarbon group with 2 to 16 carbon atoms having an aliphatic unsaturated bond, and "a" is an integer between 0 and 3.

5. (Previously Presented) The method of Claim 1, wherein said component (B) is a polysulfide polymer having molecular terminals capped with mercapto groups, which is expressed by the following formula (2):



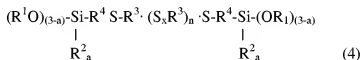
[where R^3 is selected from an alkylene group with 2 to 10 carbon atoms, an arylene group with 6 to 10 carbon atoms, an alkylenoxyalkylene group with 2 to 10 carbon atoms, or a divalent organic group of formula (3):



(where R^8 are the same or different alkylene groups with 1 to 10 carbon atoms, and "m" is an integer between 2 and 20), and a hydroxy-substituted alkylene group with 3 to 12 carbon atoms; "y" is a number with a mean value between 1.7 and 2, and "n" is a number with a mean value between 1 and 120].

6. (Original) The method of Claim 1, wherein said component (C) is a nitrogen-containing organic base.

7. (Previously Presented) The method of Claim 1, wherein said mixing of said components (A) to (D) is carried out at a temperature within a range from room temperature to 200°C.
8. (Previously Presented) The method of Claim 5, wherein said mixing of said components (A) to (D) is carried out in an atmosphere of inert gas.
9. (Currently Amended) A method for the preparation of a polysulfide-type polymer having an organosilyl group represented by the following formula (4):



[wherein R^1 , R^2 , R^3 , "a" and "n" are the same as defined below, R^4 is a residue formed in an addition reaction of the aliphatic unsaturated bond contained in below-defined R^5 of formula (1) of component (A) given below to a hydrogen atom of the mercapto group of below-given component (B), and "x" is a number which on average is greater than 1 and smaller than 8 or equal to 8], said method characterized by mixing:

(A) an organosilane or mixture of organosilanes represented by the following formula (1):



where R^1 is an alkoxyalkylene group or a monovalent hydrocarbon group with 1 to 10 carbon atoms, R^2 is a monovalent hydrocarbon group, ~~other than the one having with~~ 1-15 carbon atoms, other than monovalent hydrocarbon groups having an aliphatic unsaturated bond[[s]], R^5 is a monovalent hydrocarbon group with 2 to 16 carbon atoms having aliphatic unsaturated bonds, and “a” is an integer between 0 and 3;

(B) a polysulfide polymer having molecular terminals capped with mercapto groups, which is expressed by the following formula (2):



[where R^3 is selected from an alkylene group with 2 to 10 carbon atoms, an arylene group with 6 to 10 carbon atoms, an alkylenoxyalkylene group with 2 to 10 carbon atoms, or a divalent organic group of formula (3):



(where R^8 are the same or different alkylene groups with 1 to 10 carbon atoms, and “m” is an integer between 2 and 20), and a hydroxy-substituted alkylene group with 3 to 12 carbon atoms; “y” is a number with a mean value between 1.7 and 2, and “n” is a number with a mean value between 1 and 120], said component (B) being used in an amount of 10 to 200 mole % relative to said component (A);

(C) a nitrogen-containing organic base used in an amount of 0.01 to 10 mole % relative to said component (A); and

(D) sulfur used in such an amount that sulfur atoms constitute 1 to 600 mole % relative to 1 mole of the repeating units ($S_y R^3$) in said component (B).

10. (Previously Presented) The method for the preparation of a polysulfide-type polymer having an organosilyl group according to Claim 9, wherein said mixing is carried out in an atmosphere of inert gas at a temperature within a range from room temperature to 200°C.